FIG. 1 PRIOR ART

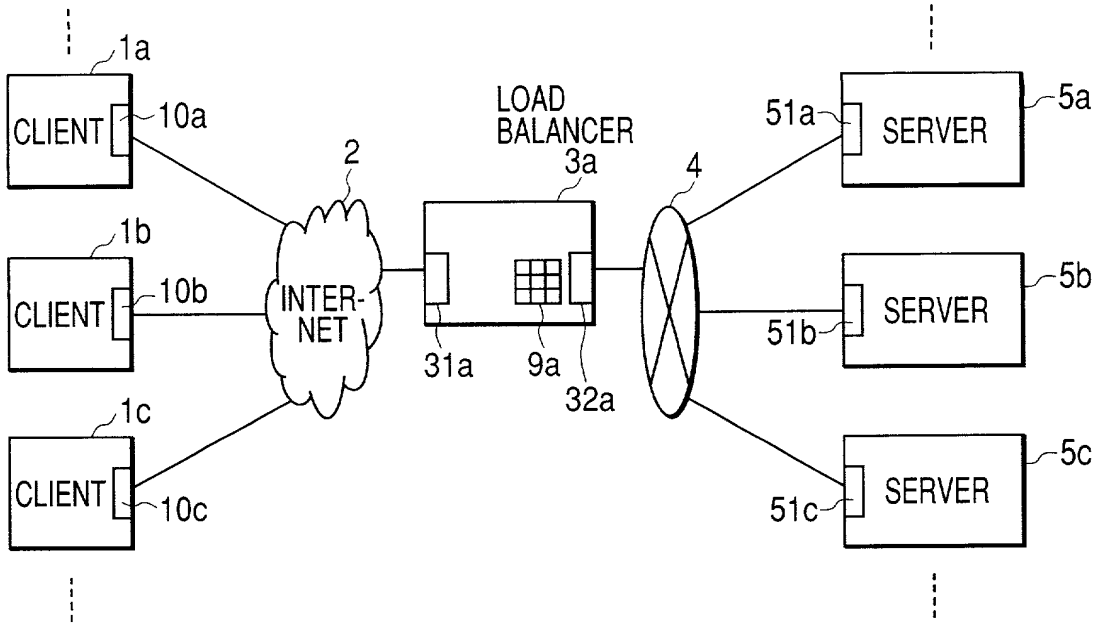

FIG. 2 PRIOR ART

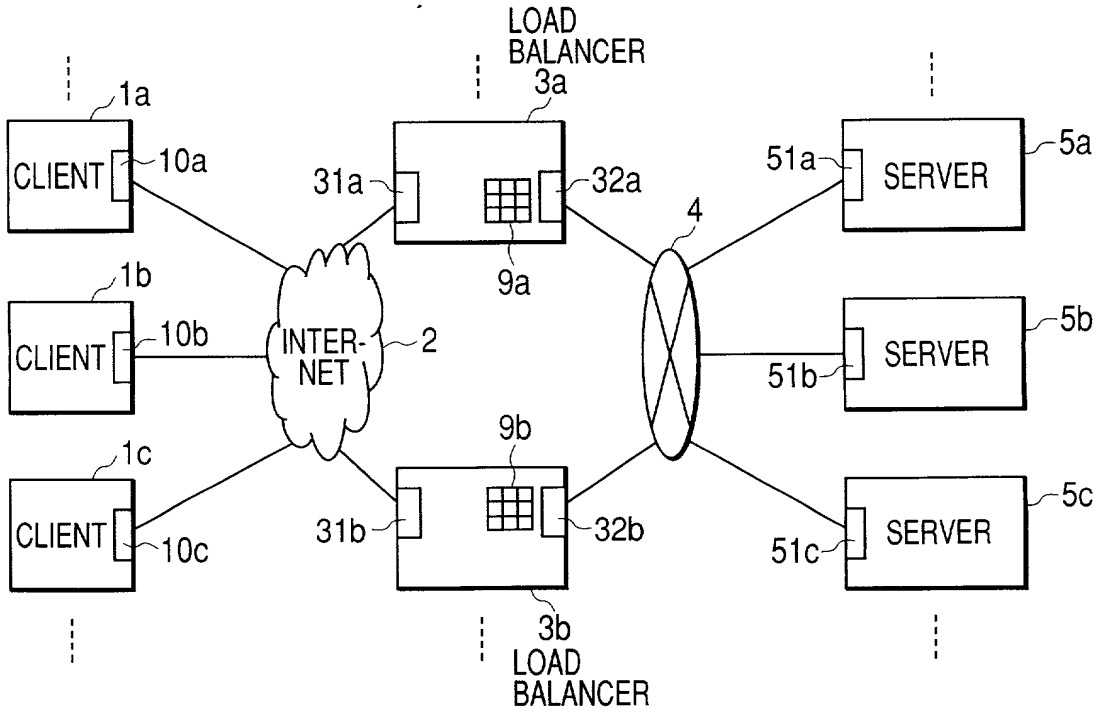

FIG. 3

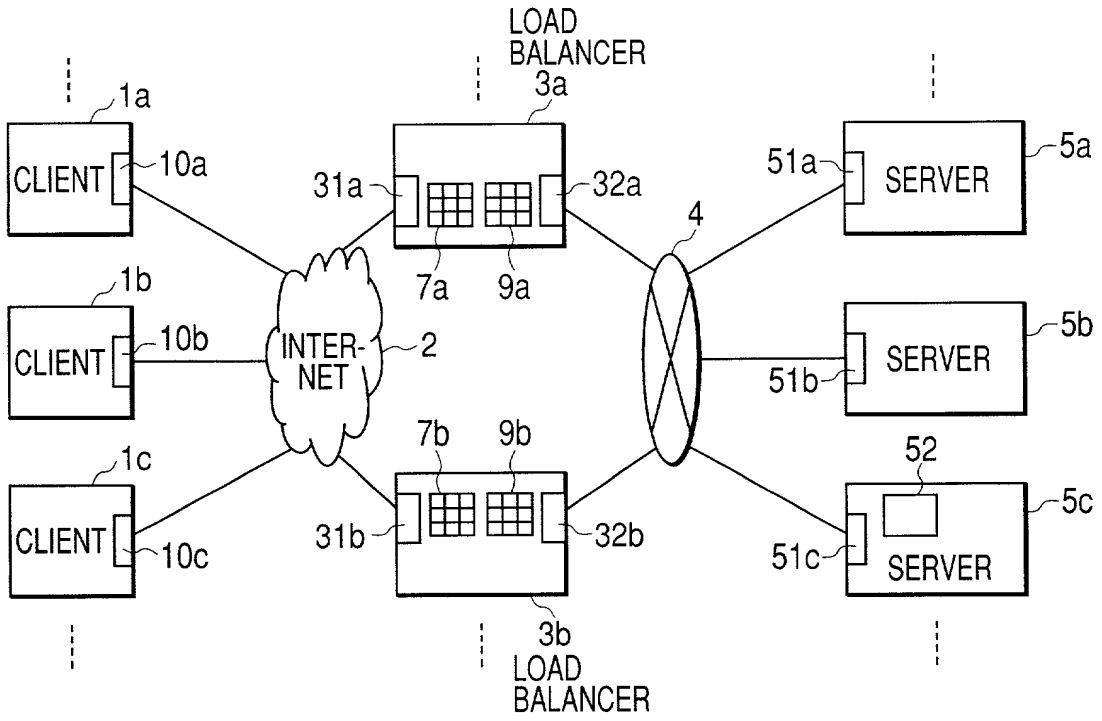

FIG. 4A

P1a

SOURCE ADDRESS (CLIENT)		DESTINATION ADDRESS (LOAD BALANCER)		OTHER INFORMATION
IP	PORT	IP	PORT	
10a-IP	1029	31a-IP-1	80	------
800	801	802	803	804

FIG. 4B

P5a

SOURCE ADDRESS (CLIENT)		DESTINATION ADDRESS (SERVER)		OTHER INFORMATION
IP	PORT	IP	PORT	
10a-IP	1029	51a-IP	80	------
805	806	807	808	809

FIG. 5

ACCESS CORRESPONDENCE TABLE 9a

CLIENT		LOAD BALANCER (EXTERNAL INTERFACE)	SERVER		TCP FLOW CONTROL		
IP	PORT	IP	IP	PORT	SEQ.	DELTA	TIME-STAMP
10a-IP	1029	31a-IP-1	51a-IP	80	320	0	—
10b-IP	1028	31a-IP-2	51b-IP	21	29	2	—
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
901	902	903	904	905	906	907	908

FIG. 6

ACCESS CORRESPONDENCE TABLE 9b

CLIENT		LOAD BALANCER (EXTERNAL INTERFACE)	SERVER		TCP FLOW CONTROL		
IP	PORT	IP	IP	PORT	SEQ.	DELTA	TIME-STAMP
10c-IP	1050	31b-IP-1	51c-IP	80	89	0	—
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
901	902	903	904	905	906	907	908

FIG. 7A

TRANSFER PROCESSING MODE TABLE 7a

IP	MODE
31a-IP-1	NORMAL
31a-IP-2	NORMAL
⋮	⋮
70	71

FIG. 7B

TRANSFER PROCESSING MODE TABLE 7b

IP	MODE
31b-IP-1	NORMAL
⋮	⋮
⋮	⋮
70	71

FIG. 8A

TRANSFER PROCESSING MODE TABLE 7b

IP	MODE
31b-IP-1	NORMAL
31a-IP-1	TRANSITION
⋮	⋮

70 71

FIG. 8B

TRANSFER PROCESSING MODE TABLE 7a

IP	MODE
31a-IP-2	NORMAL
⋮	⋮
⋮	⋮

70 71

FIG. 8C

TRANSFER PROCESSING MODE TABLE 7b

IP	MODE
31b-IP-1	NORMAL
31a-IP-1	NORMAL
⋮	⋮

70 71

FIG. 9

ACCESS CORRESPONDENCE TABLE 9b

CLIENT		LOAD BALANCER (EXTERNAL INTERFACE)	SERVER		TCP FLOW CONTROL		
IP	PORT	IP	IP	PORT	SEQ.	DELTA	TIME-STAMP
10c-IP	1050	31b-IP-1	51c-IP	80	89	0	—
10b-IP	1029	31a-IP-2	51a-IP	80	320	0	—
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

901 902 903 904 905 906 907 908

FIG. 10

ACCESS CORRESPONDENCE TABLE 9a

CLIENT		LOAD BALANCER (EXTERNAL INTERFACE)	SERVER		TCP FLOW CONTROL		
IP	PORT	IP	IP	PORT	SEQ.	DELTA	TIME-STAMP
10b-IP	1028	31a-IP-2	51b-IP	21	29	2	—
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

901 902 903 904 905 906 907 908

FIG. 11A

P1a

SOURCE ADDRESS (CLIENT)		DESTINATION ADDRESS (LOAD BALANCER)		OTHER INFORMATION
IP	PORT	IP	PORT	
10a-IP	1029	31a-IP-1	80	------
810	811	812	813	814

FIG. 11B

P5a

SOURCE ADDRESS (LOAD BALANCER)		DESTINATION ADDRESS (SERVER)		OTHER INFORMATION
IP	PORT	IP	PORT	
32a-IP-1	2011	51a-IP	80	------
815	816	817	818	819

FIG. 12

ACCESS CORRESPONDENCE TABLE 90a

CLIENT		LOAD BALANCER			SERVER		TCP FLOW CONTROL		
		EXTERNAL INTERFACE	INTERNAL INTERFACE						
IP	PORT	IP	IP	PORT	IP	PORT	SEQ.	DELTA	TIME-STAMP
10a-IP	1029	31a-IP-1	32a-IP-1	2011	51a-IP	80	320	0	—
10b-IP	1028	31a-IP-2	32a-IP-2	2010	51b-IP	21	29	2	—
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
901	902	903	913	914	904	905	906	907	908

FIG. 13

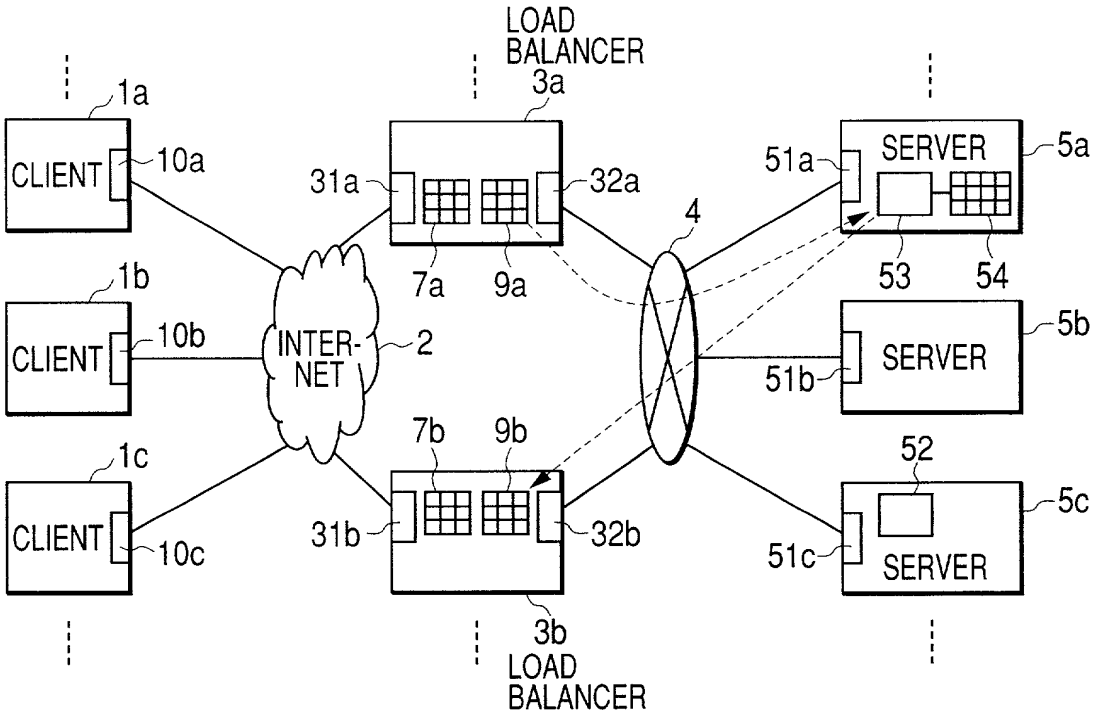

FIG. 14

TCP/IP
CONNECTION TABLE
100

CLIENT		OBJECT HOST		TCP FLOW CONTROL	
IP	PORT	IP	PORT	SEQ.	TIMESTAMP
10a-IP	1029	51a-IP	80	320	—
⋮	⋮	⋮	⋮	⋮	⋮

930 931 932 933 934 935